

# L-Menthyl chloroformate

<b>Other names:</b>	(1R)-(-)-Menthyl chloroformate (-)-(1R)-Menthyl chloroformate
<b>Inchi:</b>	InChI=1S/C11H19ClO2/c1-7(2)9-5-4-8(3)6-10(9)14-11(12)13/h7-10H,4-6H2,1-3H3
<b>InchiKey:</b>	KIUPCUCGVCGPPA-UHFFFAOYSA-N
<b>Formula:</b>	C11H19ClO2
<b>SMILES:</b>	CC1CCC(C(C)C)C(OC(=O)Cl)C1
<b>Mol. weight [g/mol]:</b>	218.72
<b>CAS:</b>	14602-86-9

## Physical Properties

Property code	Value	Unit	Source
gf	-197.52	kJ/mol	Joback Method
hf	-522.55	kJ/mol	Joback Method
hfus	21.68	kJ/mol	Joback Method
hvap	53.04	kJ/mol	Joback Method
log10ws	-3.70		Crippen Method
logp	3.823		Crippen Method
mvol	174.670	ml/mol	McGowan Method
pc	2229.20	kPa	Joback Method
rinpol	1067.00		NIST Webbook
rinpol	1067.00		NIST Webbook
tb	574.57	K	Joback Method
tc	785.36	K	Joback Method
tf	299.71	K	Joback Method
vc	0.649	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	438.98	J/molxK	574.57	Joback Method
cpg	457.89	J/molxK	609.70	Joback Method
cpg	475.80	J/molxK	644.83	Joback Method
cpg	492.71	J/molxK	679.97	Joback Method
cpg	508.63	J/molxK	715.10	Joback Method

cpg	523.56	J/molxK	750.23	Joback Method
cpg	537.50	J/molxK	785.36	Joback Method
dvisc	0.0030423	Paxs	299.71	Joback Method
dvisc	0.0015308	Paxs	345.52	Joback Method
dvisc	0.0009047	Paxs	391.33	Joback Method
dvisc	0.0005970	Paxs	437.14	Joback Method
dvisc	0.0004262	Paxs	482.95	Joback Method
dvisc	0.0003226	Paxs	528.76	Joback Method
dvisc	0.0002553	Paxs	574.57	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C14602869&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C14602869&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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